

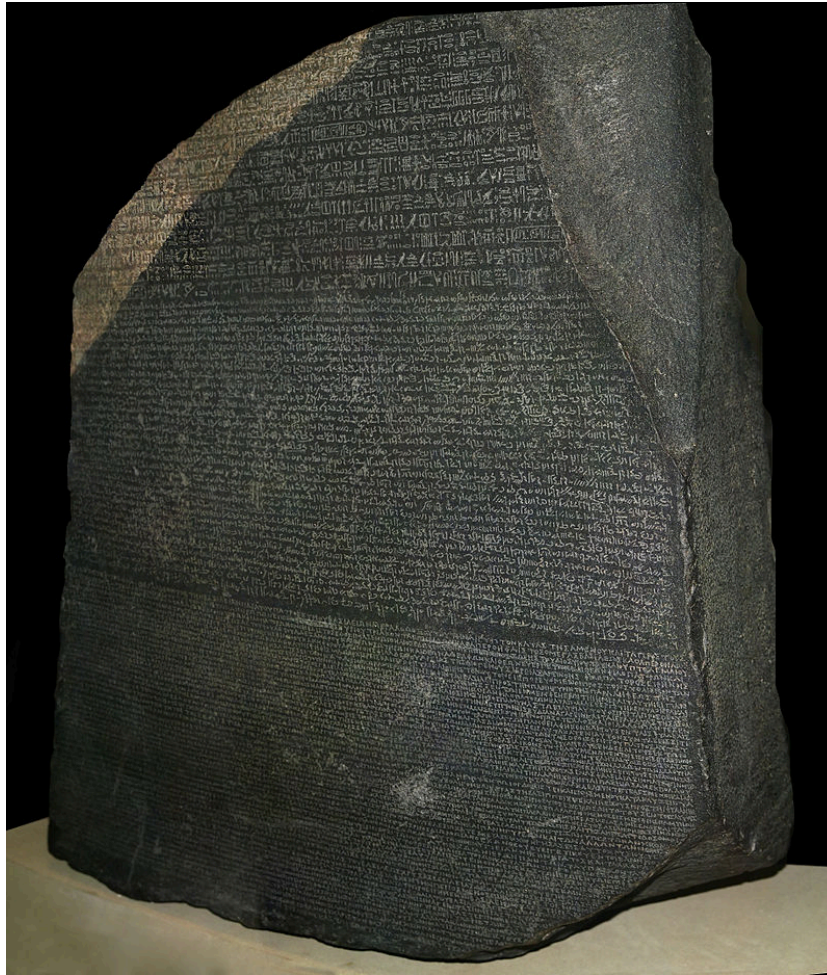
Rosetta Stone of Digital Representations

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Rosetta Stone of Digital Representations

Various Digital representations of music (mostly ASCII), encoding this melody:



Rosetta Stone of Digital Representations



Braille

○* ○* *○ ○* ○* ○○ ○* ** ○○ *○ ** ** ** ** ** ** ** ** ** ** ** **
○* ○○ *○ ○* ○* ** ○○ ○* ○○ ○* ○* ○* ** *○ *○ ○○ ○*
*○ *○ *○ ** ○○ ○* ○* ○○ *○ *○ *○ ** ** ○* *○ ** ** **

○○ ** ○○ ○* ** ** ○* ○* *○
○* ○* ○○ *○ ○* *○ ** *○ **
○* ○○ *○ ** ** ○* ** ** **

Rosetta Stone of Digital Representations



Plaine & Easie

G-2 bB 2/4 {8.C3DC}{8CC}/{6CF}4F6-F/{FA}4A6-C/{8.C6A}{CBAG}/

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ABC

X:1

T:Example

M:2/4

K:F

L:1/16

c3 d/2 c/2 c2 c2 | c f f4 z f |

f a a4 z c' | c'3 a c'bag |

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DARMS

```
!G !K1- !M2:4  
6E.( 7T(( 6))) 6E( 6) /  
6S(( 9)) 9Q RS 9S /  
9S( 11) 11Q RS 13S /  
13E.( 11S) 13S(( 12 11 10)) /
```

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Guido Music Notation

```
[ \clef<"g2"> \key<-1> \meter<"2/4">
      c2/8. d/32 c c/8 c
\bar<2> c/16 f f/4 _/16 f
\bar<3> f a a/4 _/16 c3
\bar<4> c/8. a2/16 c3 b&2 a g
]
```

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SCORE (User Input)

```
TR/K1F/2 4/C5/D/C/C/C/M/C/F/F/R/F/M/F/A/A/R/C6/M/C/A5/C6/B5/A/G/M/MI;  
E./32/32/E/E/S/S/Q/S/S/S/S/Q/S/S/E./S/S/S/S/S;  
;  
1 3/4 5/6 7/10 11/14 15/16 19;  
;
```


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MuseData

Part_1

Group memberships: score

score: part 1 of 1

\$ Q:8 K:-1 T:2/4 C:4

S

```
C5      6      1 e.    d  [  
D5      1      1 t     d  =[[  
C5      1      1 t     d  ]]]  
C5      4      1 e     d  [  
C5      4      1 e     d  ]
```

measure 2

```
C5      2      1 s     d  [[  
F5      2      1 s     d  ]]  
F5      8      1 q     d  
rest    2      1 s  
F5      2      1 s     d
```

measure 3

```
F5      2      1 s     d  [[  
A5      2      1 s     d  ]]  
A5      8      1 q     d  
rest    2      1 s  
C6      2      1 s     d
```

measure 4

```
C6      6      1 e.    d  [  
A5      2      1 s     d  ]\  
C6      2      1 s     d  [[  
Bf5     2      1 s     d  ==  
A5      2      1 s     d  ==  
G5      2      1 s     d  ]]
```

/END

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Humdrum

```
**kern
=1-
*clefG2
*k[b-]
*M2/4
8.cc\L
32dd\LL
32cc\JJJ
8cc\L
8cc\J
=2
16cc\LL
16ff\JJ
4ff\
16r
16ff\
=3
16ff\LL
16aa\JJ
4aa\
16r
16ccc\
=4
8.ccc\L
16aa\Jk
16ccc\LL
16bb-\
16aa\
16gg\JJ
*-
```

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Humdrum

```
**kern
=1-
*clefG2
*k[b-]
*M2/4
8.cc\L
32dd\LL
32cc\JJJ
8cc\L
8cc\J
=2
16cc\LL
16ff\JJ
4ff\
16r
16ff\
=3
16ff\LL
16aa\JJ
4aa\
16r
16ccc\
=4
8.ccc\L
16aa\Jk
16ccc\LL
16bb-\
16aa\
16gg\JJ
*-
```

Humdrum
**koto

```
**koto
5.|
5||h
5|
5|
=
5||
7||
7
0||
7||
=
7||
9||#
9#
0||
A||
=
A|.
9||#
A||
9||##
9||#
8||
=
*-
```

|| 5. 5 5 5 | 5 7 7 0 7 | 7 9 9 0 A | A. 9 A 9 9 8 |

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Melisma

Info keysig 1 flat

Note	0	750	72
Note	750	875	74
Note	875	1000	72
Note	1000	1500	72
Note	1500	2000	72
Note	2000	2250	72
Note	2250	2500	77
Note	2500	3500	77
Note	3750	4000	77
Note	4000	4250	77
Note	4250	4500	81
Note	4500	5500	81
Note	5750	6000	84
Note	6000	6750	84
Note	6750	7000	81
Note	7000	7250	84
Note	7250	7500	82
Note	7500	7750	81
Note	7750	8000	79

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SKINI

```
// Measure number 1 =0  
// Keysig 1 flat
```

NoteOn	0	1	72	64
NoteOff	0.75	1	72	64
NoteOn	0	1	74	64
NoteOff	0.125	1	74	64
NoteOn	0	1	72	64
NoteOff	0.125	1	72	64
NoteOn	0	1	72	64
NoteOff	0.5	1	72	64
NoteOn	0	1	72	64
NoteOff	0.5	1	72	64

```
// Measure number 2 =2
```

NoteOn	0	1	72	64
NoteOff	0.25	1	72	64
NoteOn	0	1	77	64
NoteOff	0.25	1	77	64
NoteOn	0	1	77	64
NoteOff	1	1	77	64
NoteOn	0.25	1	77	64
NoteOff	0.25	1	77	64

```
// Measure number 3 =4
```

NoteOn	0	1	77	64
NoteOff	0.25	1	77	64
NoteOn	0	1	81	64
NoteOff	0.25	1	81	64
NoteOn	0	1	81	64
NoteOff	1	1	81	64
NoteOn	0.25	1	84	64
NoteOff	0.25	1	84	64

```
// Measure number 4 =6
```

NoteOn	0	1	84	64
NoteOff	0.75	1	84	64
NoteOn	0	1	81	64
NoteOff	0.25	1	81	64
NoteOn	0	1	84	64
NoteOff	0.25	1	84	64
NoteOn	0	1	82	64
NoteOff	0.25	1	82	64
NoteOn	0	1	81	64
NoteOff	0.25	1	81	64
NoteOn	0	1	79	64
NoteOff	0.25	1	79	64

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Allegro

1	1	72	64	0	0.75
2	1	74	64	0.75	0.125
3	1	72	64	0.875	0.125
4	1	72	64	1	0.5
5	1	72	64	1.5	0.5
6	1	72	64	2	0.25
7	1	77	64	2.25	0.25
8	1	77	64	2.5	1
9	1	77	64	3.75	0.25
10	1	77	64	4	0.25
11	1	81	64	4.25	0.25
12	1	81	64	4.5	1
13	1	84	64	5.75	0.25
14	1	84	64	6	0.75
15	1	81	64	6.75	0.25
16	1	84	64	7	0.25
17	1	82	64	7.25	0.25
18	1	81	64	7.5	0.25
19	1	79	64	7.75	0.25

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NoteArray

%bar	%mdur	%bdur	%beat	%b40
1	2	1	0	202
1	2	1	0.75	208
1	2	1	0.875	202
1	2	1	1	202
1	2	1	1.5	202
2	2	1	0	202
2	2	1	0.25	219
2	2	1	0.5	219
2	2	1	1.5	0
2	2	1	1.75	219
3	2	1	0	219
3	2	1	0.25	231
3	2	1	0.5	231
3	2	1	1.5	0
3	2	1	1.75	242
4	2	1	0	242
4	2	1	0.75	231
4	2	1	1	242
4	2	1	1.25	236
4	2	1	1.5	231
4	2	1	1.75	225

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CMN

```
(cmn  
  staff  
  treble  
  f-major  
  (meter 2 4)
```

```
(bar 1)  (c5 e.) (d5 ) (c5 ) (c5 e) (c5 e)  
(bar 2)  (c5 s) (f5 s) (f5 q) sixteenth-rest (f5 s)  
(bar 3)  (f5 s) (a5 s) (a5 q) sixteenth-rest (c6 s)  
(bar 4)  (c6 e.) (a5 s) (c6 s) (bf5 s) (a5 s) (g5 s)  
)
```


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mono-track

Director Musices

```
:trackname "track 1"
```

```
(bar 1 n ("C5" 3/16) meter (2 4))
```

```
(n ("D5" 1/32))
```

(n ("C5" 1/32))

(n ("C5" 1/8))

```
(n ("C5" 1/8))
```

```
(bar 2 n ("C5" 1/16))
```

(n ("F5" 1/16))

(n ("F5" 1/4))

```
(n (nil 1/16) rest t)
```

(n ("F5" 1/16))

```
(bar 3 n ("F5" 1/16))
```

(n ("A5" 1/16))

(n ("A5" 1/4))

```
(n (nil 1/16) rest t)
```

```
(n ("C6" 1/16))
```

```
(bar 4 n ("C6" 3/16))
```

(n ("A5" 1/16))

```
(n ("C6" 1/16))
```

(n ("Bb5" 1/16))

(n ("A5" 1/16))

```
(n ("G5" 1/16))
```

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ENP

```
(:begin :score
  (:begin :part1
    :staff :treble-staff
    :key-signature :f-major
    :time-signature (2 4)
    (:begin :voicel
      (:begin :measure1
        (1 (
          (6 ((1 :notes (72) :stem-direction :down)))
          (1 ((1 :notes (74) :stem-direction :down)))
          (1 ((1 :notes (72) :stem-direction :down)))
        ))
        (1 (
          (1 ((1 :notes (72) :stem-direction :down)))
          (1 ((1 :notes (72) :stem-direction :down)))
        ))
      ))
    (:begin :measure2
      (2 (
        (1 ((1 :notes (72) :stem-direction :down)))
        (1 ((1 :notes (77) :stem-direction :down)))
        (4 ((1 :notes (77) :stem-direction :down)))
        (1 (-1))
        (1 ((1 :notes (77) :stem-direction :down)))
      ))
    )
  )
)
```

```
(:begin :measure3
  (2 (
    (1 ((1 :notes (77) :stem-direction :down)))
    (1 ((1 :notes (81) :stem-direction :down)))
    (4 ((1 :notes (81) :stem-direction :down)))
    (1 (-1))
    (1 ((1 :notes (84) :stem-direction :down)))
  ))
)
(:begin :measure4
  (1 (
    (3 ((1 :notes (84) :stem-direction :down)))
    (1 ((1 :notes (81) :stem-direction :down)))
  ))
  (1 (
    (1 ((1 :notes (84) :stem-direction :down)))
    (1 ((1 :notes (82) :stem-direction :down)))
    (1 ((1 :notes (81) :stem-direction :down)))
    (1 ((1 :notes (79) :stem-direction :down)))
  ))
)
) ; end :voicel
) ; end :part1
) ; end :score
```

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Lilypond

```
\version "2.3.25"
\header {
  crossRefNumber = "1"
  footnotes = ""
  tagline = "Lily was here 2.4.1 -- automatically
converted from ABC"
  title = "Example"
}
voicedefault = {
\set Score.defaultBarType = "empty"
\time 2/4   c8.    d32    c32    c8      c8      \bar "|"
c16
f16      f4      r16    f16      \bar "|"      f16      a16      a4
r16
c16      \bar "|"    c8.    a16      c16      b16      a16      g16
\bar "|"
}
\score{
  <<
    \context Staff="default" { \voicedefault }
  >>
}
```

header

score

staff 1

music

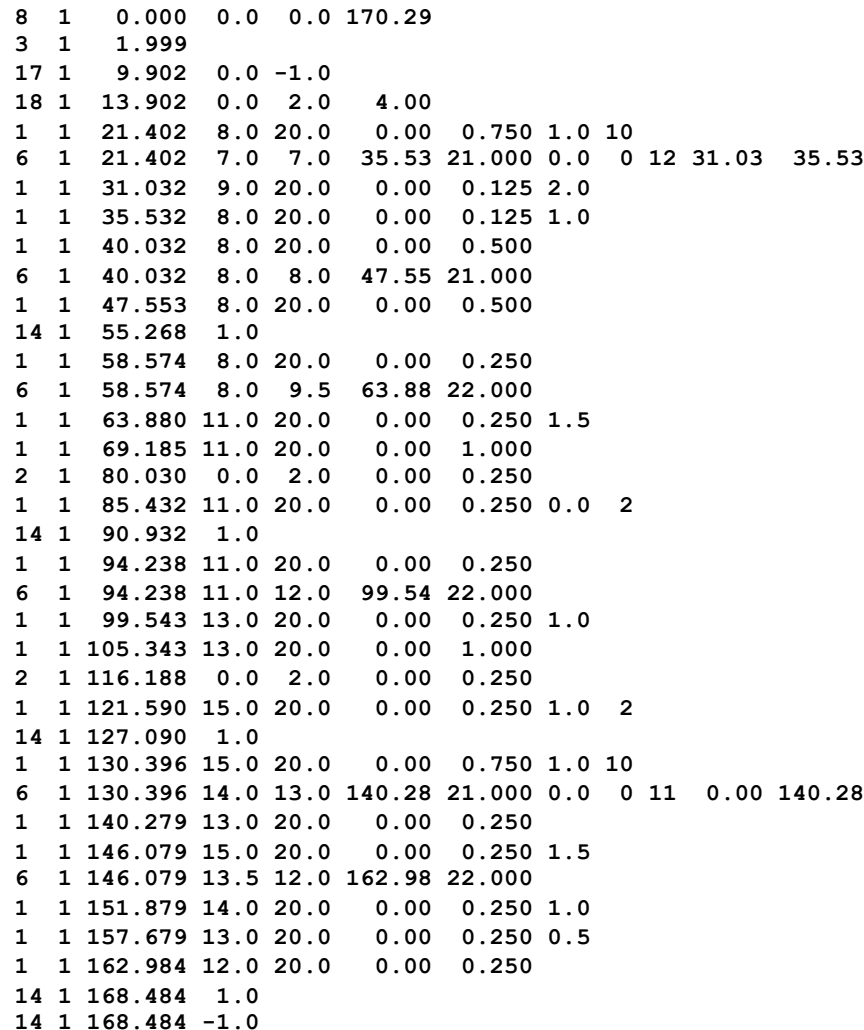
bar

bar

bar

bar

SCORE PMX



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MEI

```
<measure n="1" xml:id="m_sc_2" left="invis">
  <staff n="1">
    <layer n="1">
      <beam>
        <note xml:id="n_sc_6_0" pname="c" oct="5" dur="8" dots="1"/>
        <note xml:id="n_sc_7_0" pname="d" oct="5" dur="32"/>
        <note xml:id="n_sc_8_0" pname="c" oct="5" dur="32"/>
      </beam>
      <beam>
        <note xml:id="n_sc_9_0" pname="c" oct="5" dur="8"/>
        <note xml:id="n_sc_10_0" pname="c" oct="5" dur="8"/>
      </beam>
    </layer>
  </staff>
</measure>
<measure n="2" xml:id="m_sc_11">
  <staff n="1">
    <layer n="1">
      <beam>
        <note xml:id="n_sc_12_0" pname="c" oct="5" dur="16"/>
        <note xml:id="n_sc_13_0" pname="f" oct="5" dur="16"/>
      </beam>
      <note xml:id="n_sc_14_0" pname="f" oct="5" dur="4"/>
      <rest xml:id="n_sc_15_0" dur="16"/>
      <note xml:id="n_sc_16_0" pname="f" oct="5" dur="16"/>
    </layer>
  </staff>
</measure>
```

MusicXML

MusicXML

```
<note>
  <pitch>
    <step>A</step>
    <octave>5</octave>
  </pitch>
  <duration>2</duration>
  <voice>1</voice>
  <type>16th</type>
  <stem>down</stem>
  <beam number="1">continue</beam>
  <beam number="2">continue</beam>
  <notations/>
</note>
<note>
  <pitch>
    <step>G</step>
    <octave>5</octave>
  </pitch>
  <duration>2</duration>
  <voice>1</voice>
  <type>16th</type>
  <stem>down</stem>
  <beam number="1">end</beam>
  <beam number="2">end</beam>
  <notations/>
</note>
</measure>
```

Rosetta Stone of Digital Representations



Standard MIDI File

```
4d 54 68 64 00 00 00 06 00 01 00 02 00 60 4d 54 72 6b 00 00
00 3c 00 ff 01 18 50 72 6f 64 75 63 65 64 20 75 73 69 6e 67
20 53 68 61 72 70 45 79 65 32 00 ff 59 02 00 00 00 ff 59 02
ff 00 00 ff 51 03 0f 42 40 00 ff 58 04 02 02 18 08 86 00 ff
2f 00 4d 54 72 6b 00 00 00 a9 00 c0 00 00 b0 07 50 00 ff 59
02 ff 00 00 90 48 40 48 80 48 40 00 90 4a 40 0c 80 4a 40 00
90 48 40 0c 80 48 40 00 90 48 40 30 80 48 40 00 90 48 40 30
80 48 40 00 90 48 40 18 80 48 40 00 90 4d 40 18 80 4d 40 00
90 4d 40 60 80 4d 40 18 90 4d 40 18 80 4d 40 00 90 4d 40 18
80 4d 40 00 90 51 40 18 80 51 40 00 90 51 40 60 80 51 40 18
90 54 40 18 80 54 40 00 90 54 40 48 80 54 40 00 90 51 40 18
80 51 40 00 90 54 40 18 80 54 40 00 90 52 40 18 80 52 40 00
90 51 40 18 80 51 40 00 90 4f 40 18 80 4f 40 00 ff 2f 00
```